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   Titolo   Linguistic Linked Data [[electronic resource]] : Representation,
                   Generation and Applications / / by Philipp Cimiano, Christian Chiarcos,
                   John P. McCrae, Jorge Gracia

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   Edizione   [1st ed. 2020.]

   Descrizione fisica   1 online resource (XVI, 286 p.)

   Disciplina   006

   Soggetti   Knowledge representation (Information theory)
                   Natural language processing (Computer science)
                   Application software
                   Knowledge based Systems
                   Natural Language Processing (NLP)
                   Computer Appl. in Arts and Humanities

   Lingua di pubblicazione   Inglese

   Formato   Materiale a stampa

   Livello bibliografico   Monografia

   Nota di bibliografia   Includes bibliographical references.

   Nota di contenuto   1 Introduction -- 2 Preliminaries -- 3 Linguistic Linked Open Data
                       Cloud -- 4 Modelling lexical resources as Linked Data -- 5
                       Representing annotated texts as RDF -- 6 Modelling linguistic
                       annotations -- 7 Modelling metadata of language resources -- 8
                       Linguistic Categories -- 9 Converting language resources into Linked
                       Data -- 10 Link Representation and Discovery -- 11 Linked Data-based
                       NLP Workflows -- 12 Applying linked data principles to linking
                       multilingualWordnets -- 13 Linguistic Linked Data in Digital Humanities
                       -- 14 Discovery of language resources -- 15 Conclusion.

   Sommario/riassunto   This is the first monograph on the emerging area of linguistic linked
                        data. Presenting a combination of background information on linguistic
                        linked data and concrete implementation advice, it introduces and
                        discusses the main benefits of applying linked data (LD) principles to
                        the representation and publication of linguistic resources, arguing that
                        LD does not look at a single resource in isolation but seeks to create a
                        large network of resources that can be used together and uniformly,

and so making more of the single resource. The book describes how the LD principles can be applied to modelling language resources. The first part provides the foundation for understanding the remainder of the book, introducing the data models, ontology and query languages used as the basis of the Semantic Web and LD and offering a more detailed overview of the Linguistic Linked Data Cloud. The second part of the book focuses on modelling language resources using LD principles, describing how to model lexical resources using Ontolex-lemon, the lexicon model for ontologies, and how to annotate and address elements of text represented in RDF. It also demonstrates how to model annotations, and how to capture the metadata of language resources. Further, it includes a chapter on representing linguistic categories. In the third part of the book, the authors describe how language resources can be transformed into LD and how links can be inferred and added to the data to increase connectivity and linking between different datasets. They also discuss using LD resources for natural language processing. The last part describes concrete applications of the technologies: representing and linking multilingual wordnets, applications in digital humanities and the discovery of language resources. Given its scope, the book is relevant for researchers and graduate students interested in topics at the crossroads of natural language processing / computational linguistics and the Semantic Web / linked data. It appeals to Semantic Web experts who are not proficient in applying the Semantic Web and LD principles to linguistic data, as well as to computational linguists who are used to working with lexical and linguistic resources wanting to learn about a new paradigm for modelling, publishing and exploiting linguistic resources.